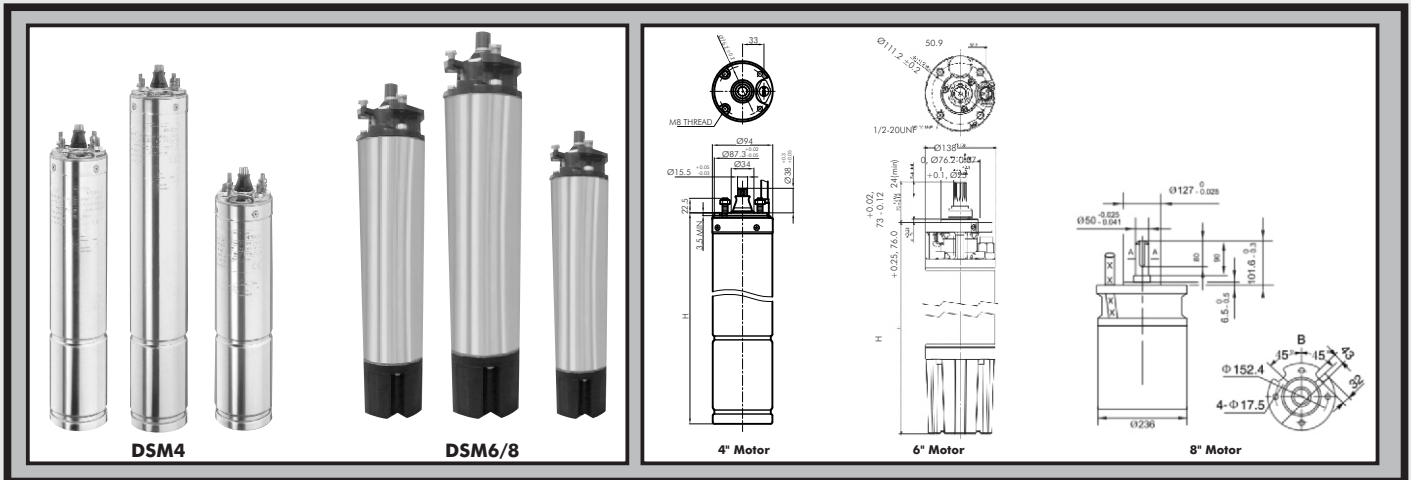




DSM

Submersible Motor



DAYLIFE DSM submersible motors are specifically designed to give exceptional reliability and efficiency in all borehole pumping applications. Features include:-

- 4" oil filled type motor with FDA approved colourless oil
- 6/8" canned type motor with resin filled stator for extended motor life
- Largely stainless steel AISI 304 construction with cast iron top and bottom bearings
- Water lubricated thrust and radial bearings
- Reinforced netted Nylon diaphragm for internal motor pressure compensation
- Thermal overload for motor protection
- Standard NEMA flanges for use with all types of pumps

Protection: IP68

Insulation Class: F

Voltage: 1x220V/240V,50Hz/ 3x380V/415V, 50Hz

OPERATING PARAMETERS

Max Voltage Variation: $\pm 10\%$

Max Starts/Hr: 20

Max Water Temperature: 35°C

Min Water Pass Flow Rate: 0.2m/sec

Max Immersion Depth: 200m-4" and 300m-6/8"

Installation: Vertical/horizontal with a tilt angle $> 50^\circ$

MOTOR DATA

SINGLE PHASE

Power		In	Istart	Efficiency	PF	RPM	Capacitor	Tail Cable		H	Weight
kW	HP	(A)	(A)	%	Cos ϕ		μ F	mm ²	m	(mm)	(Kg)
0.37	0.5	3.7	12	53	0.90	2840	16	1.5	1.7	346	7
0.55	0.75	5.0	15	62			20			365	8
0.75	1	6.2	20	64			25			380	9
1.1	1.5	8.1	32	68			35			405	10
1.5	2	10.4	38	73			40			440	12
2.2	3	15.0	46	72			55			495	14

THREE PHASE

Power		In (A)	Istart (A)	Efficiency (%)	PF (CosØ)	RPM	Thrust Load (N)	Tail Cable		H (mm)	Dia (mm)	Weight (Kg)			
kW	HP							mm²	m						
0.37	0.5	1.6	4.5	60	0.80	2820	2000	1.5	1.7	330	94	7			
0.55	0.75	1.9	6.7	64		2840				346		7			
1.1	1	2.3	8.9	66		2850				365		8			
0.75	1.5	3.1	12	70						380		9			
1.5	2	4.0	14	72		3000				405		10			
2.2	3	5.6	22	71						440		12			
3.0	4.0	7.4	43	73	0.85	2840	5000	2.0	2.5	516	140	15			
4.0	5.5	9.8	49	75		2840				607		20			
5.5	7.5	13.7	71	76						683		23			
7.5	10	18.9	96	76		2837				783		28			
5.5	7.5	12.7	59.5	79		2826		4.0		627		51			
7.5	10	16.5	67.5	79		2802	15500			662		55			
11	15	24.2	60.7	77	0.86	2837				727		61			
15	20	32	142.3	80		2814				787		67			
18.5	25	40	101.2	81		2720	6.0			857		75			
22	30	47	139.4	77	0.89	2720				907			80		
26	36	58	301	82	0.86	2003	11000	5.0		1004			101		
30	40	64.1	320	83	0.84	2848	27500	8.4		1047			102		
37	50	72.4	275	82	0.85	1417				117					
45	60	96	672	87	0.84	2850		16		1105			172		
55	75	118	826	88		10*2		1205				202			

MATERIAL SPECIFICATION

Component	Material
Motor shell	304 stainless steel
Sand guard	NBR
Cable connector	4"-EPDM, 6/8"-XLPE
Upper end bracket cover	4"-304 stainless steel, 6/8"-Cast Iron
Upper end bracket	Zinc plated cast iron
Mechanical Seal	Ceramic /Carbon
Shaft (0.5-10HP)	4"-304 stainless steel, 6/8"-AISI 420
Rotor (0.5-3HP)	4"-Aluminium
Rotor (4-10HP)	4"-Copper
Winding	Copper
Lower end bracket	4"-Aluminium, 6/8"-Cast Iron
Lower end bracket cover	4"-304 stainless steel, 6/8"-Cast Iron
Diaphragm	NBR